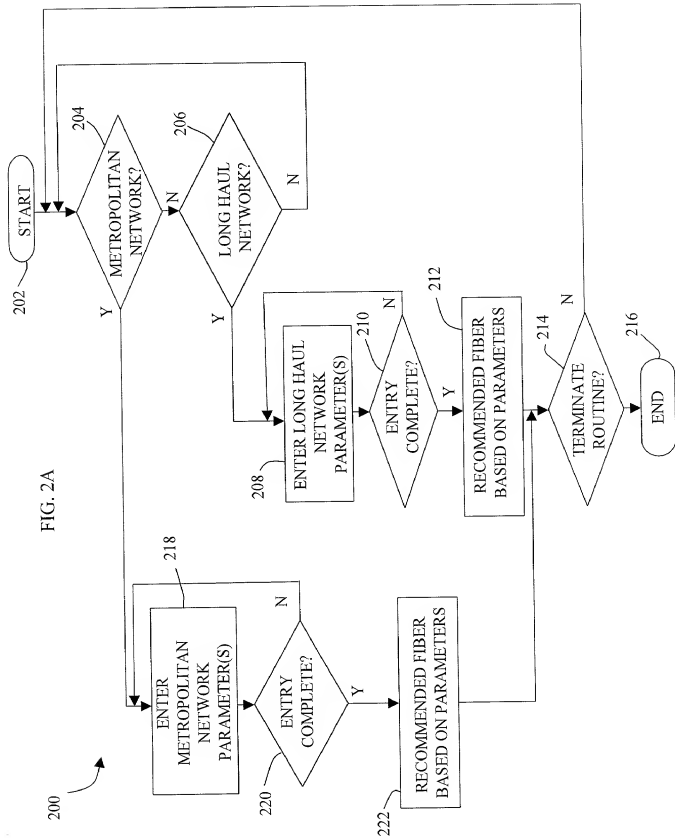


FIG. 1



222A

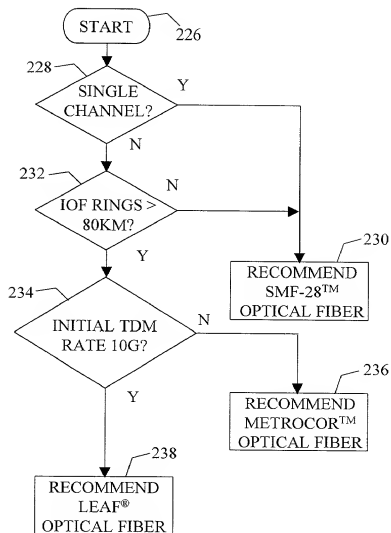


FIG. 2B

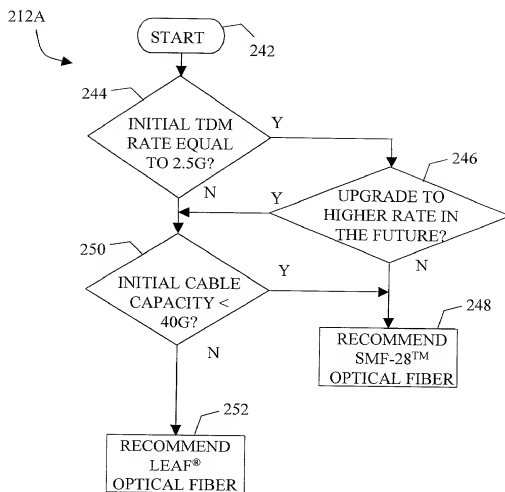


FIG. 2C

PRODUCT DESIGN TOOLS

Fiber Selection Guide
Dispersion Calculators
Spectral Attenuation Calculators
Splicing performance Information

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FIBER SELECTION GUIDE

Enter the essential parameters of your network into the fiber selection tool and it will return a recommendation of the best fiber for your network based on our network economic and system performance analysis.

Choose the type of network of interest to you.

Network Type	Example	Products for Consideration
• <u>Metropolitan</u>	Regional rings down to and including business access rings. Usually 40-400 km size rings.	LEAF®, MetroCor™, SMF-28™
• <u>Long Haul</u>	Long distance, high data rates. Nationwide backbone. Usually 350 + km lengths	LEAF®, SMF-28™

FIG. 3

PRODUCT DESIGN TOOLS

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METROPOLITAN NETWORK TYPE

Please input your network parameters
Choose the closest that apply.

Interoffice Ring (IOF) circumference

0 - 80 km ▼ Metric 0 - 50 mi Standard Equivalent

Typical N. American value is 120 km. For quick calculation, multiply cross-town distance by 3 (or pi).

Number of Office Business Rings

0 ▼

Business access rings are the smaller sub-rings that come off the main IOF ring to serve main business districts.

Business Access Ring Circumference

0 - 20 km ▼ Metric 0 - 10 mi Standard Equivalent

Typical N. American value is 20 km. For quick calculation, multiply area's end to end distance by 3 (or pi).

Channel Plan

WDM ▼

Single Channel or Wavelength Division Multiplexing

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FIG. 4A

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Choose an initial TDM rate
 ▼

Typical rate for metro DWDM applications is 2.5 Gbps.

Choose a future TDM upgrade rate, if applicable
 ▼
Choose an initial "lit" channel count
 ▼

Typical value ranges from 4-32.

Choose a maximum channel count per fiber pair
 ▼

Typical value is 32 or 40.

Choose an estimated fiber count
 ▼

Fiber counts are market dependent; values typically range from 144 - 864

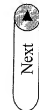


FIG. 4B

PRODUCT DESIGN TOOLS

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Spectral Attenuation Calculators
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Long Haul Network Type

Please select the parameters of your network.
Choose the closet that apply.

Average unregenerated link length

Standard Equivalent

Conservative equipment providers suggest 450 km link. Technology exists to extend this length.

Number of Links

Typical range from 1-20.

Based on your inputs we have estimated a route distance of 4000 km (2500 miles).

TDM rate

Currently most long distance carriers deploy 10 Gbps systems.

Choose a future TDM rate, if applicable.**Initial Channel Count**

Typical values range from 1 - 10.

Initial Cable Capacity**Maximum Channel Count (per fiber)**

Maximum values range from 32 - 160.

Numbers of fibers in cable

If number values by span, use average

Typical long haul fiber counts range from 48- 144.

Maximum Cable Capacity

One -way throughput. Assumes
1:1 protection and unidirectional
traffic

FIG. 5